

**CLAIMS**

1. An optoelectronic module comprising at least one optical component placed on a support, said component comprising an active optical layer, at least one  
5 confinement layer, and at least one electrical contact contacting the confinement layer, characterised in that said module further comprises a thermal sensor comprising a temperature-dependent resistive material which extends over the at least one confinement layer, at the side of the electrical contact.
- 10 2. An optical module according to claim 1, wherein the thermal sensor comprises a wire of temperature-dependent resistive material which extends between two separate electrical contact areas of the at least one electrical contact.
- 15 3. An optical module according to one of claims 1 to 2, wherein the resistive material contains platinum.
4. An optical module according to one of claims 1 to 3, wherein the resistive material contains nickel.
- 20 5. An optical module according to one of claims 1 to 4, wherein the resistive material contains copper.
- 25 6. An optical module according to any one of the preceding claims, wherein the support comprises a cooling member which regulates the temperature of the optical component as a function of temperature variations measured by the thermal sensor.
- 30 7. An optical module according to any one of the preceding claims, further comprising means for regulating the electrical control of the component as a function of temperature variations measured by the thermal sensor.

8. An optical module according to any one of claims 1 to 7, wherein the optical component is a laser.
  9. An optical module according to any one of claims 1 to 7, wherein the optical component is a modulator.
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